

Family list

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1 PAPER PACK WITH WINDOW FOR CHECKING AMOUNT OF  
RESIDUE

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CO LTD

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Inventor(s): KATAYAMA MASAMICHI; HAGIWARA KAZUYA +

Applicant(s): SANKYO CO; TOPPAN PRINTING CO LTD +

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- European:

Application number: JP20000039376 20000217

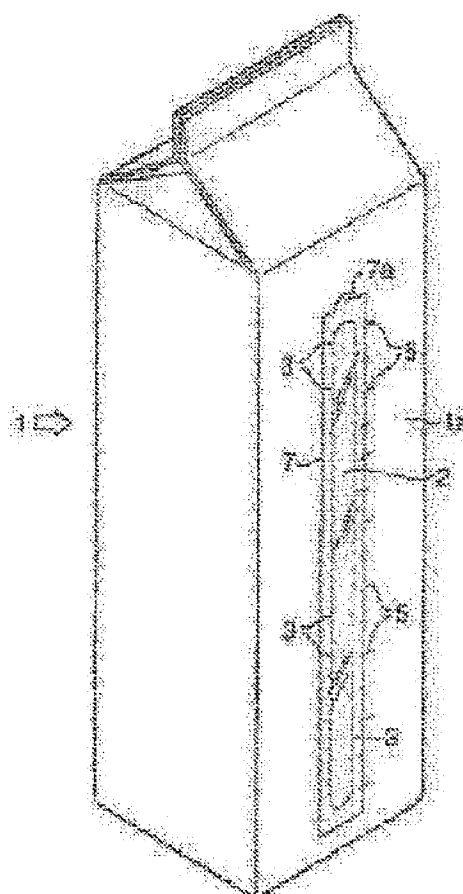
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Abstract of JP 2001225023 (A)

**PROBLEM TO BE SOLVED:** To prevent, in a paper pack with a transparent window for visually checking the amount of residues of contents such as agricultural chemicals, the window from being broken so that the contents spill out during transportation. **SOLUTION:** Incised lines 3 are formed on a paperboard which forms a container body 1, and a removable cover part 2, in a longitudinally long shape, for forming a window is formed on the paperboard encircled by the lines 3. The cover part 2 is placed on a transparent sheet on the rear side of the part 2 to protect the transparent sheet, and in order to easily cut off the cover part 2, a peeling sheet 7 is heat sealed onto the entire area of the part 2 or onto an end of the part 2.



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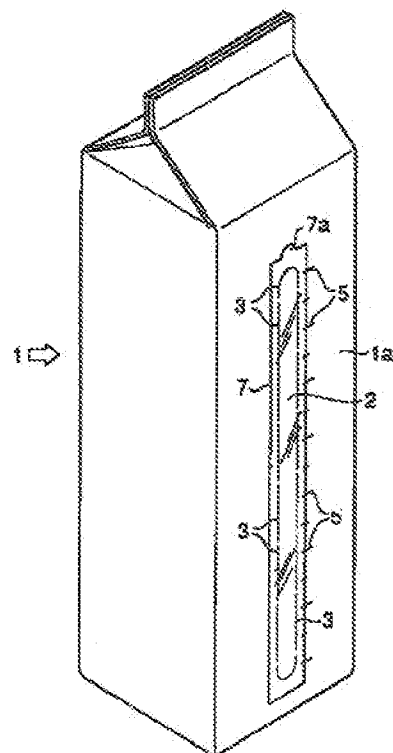
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(54) 【発明の名称】 残量確認用窓付紙バック

(57) 【要約】

【課題】 透明な窓から農薬等の内容物の残量を視認できるようにした残量確認用窓付紙バックにおいて、輸送中などに窓が破れて内容物がこぼれ出るのを防止する。

【解決手段】 容器本体1を構成する板板材に断続構造の切れ目3を設け、この切れ目3で囲まれた紙板材部に切除可能な窓形成用の除去カバー部2を縦長帯状に形成し、除去カバー部2裏側の透明シートに除去カバー部2を重ねて透明シートを防護し、除去カバー部2の切除がより簡単に行えるように除去カバー部2の表面全域又は除去カバー部の端部に、剥離用シート7をヒートシールした構成にする。



## 【特許請求の範囲】

【請求項1】 紙板材を折り曲げ組み立てた直方体形状の容器本体内に、液体、粉体等の内容物を収納するとともに、容器本体の一側面上下方向に縦長で、しかも透明なシートによって全域が裏打ちされた窓を透して内容物の残量を視認できるようにした残量確認用窓付紙バックにおいて、

前記紙板材に前記窓の外形状に適合する断続構造の切れ目を設け、この切れ目で囲まれた紙板材部に切除可能な窓形成用の除去カバー部を形成し、この除去カバー部の表面全域又は除去カバー部の端部に、剥離用シートを固着したことを特徴とする残量確認用窓付紙バック。

【請求項2】 前記剥離用シートに、紙板材に固着しない摘み部を設けたことを特徴とする請求項1に記載の残量確認用窓付紙バック。

## 【発明の詳細な説明】

## 【0001】

【発明の属する技術分野】 この発明は、紙板材を折り曲げて直方体形状に組み立て、内部に液体、粉体などの内容物を収納する残量確認用窓付紙バックに係る技術分野に属する。

## 【0002】

【従来の技術】 従来、紙バックの中に、内部に、たとえば液状の農薬を収納したものがあるが、農薬を一度に全部使い切らないときは、そのまま保管して後の使用に備える場合がある。

【0003】したがって、そのように内容物を紙バックで保管する場合には、後に再び使用するとき、内容物の残量を確認できると便利である。そのため、従来の紙バックの中には、高さ方向に細長い窓孔を設け、その窓孔を透明フィルムで裏打ちして透明な窓を形成し、その窓から内容物の残量を視認できるようにしたものがある（たとえば実願平3-93298号参照）。

## 【0004】

【発明が解決しようとする課題】 上述のような従来の残量確認用窓付紙バックでは、たとえば輸送中に、透明フィルムに不用意に尖ったものが当たると、その透明フィルムが破れて窓から内容物がこぼれ出してしまうという課題があった。

【0005】そこで、この発明の目的は、上述のように透明な窓から内容物の残量を視認できるようにした残量確認用窓付紙バックにおいて、たとえば輸送中に窓が破れて内容物がこぼれ出るのを防止することにある。

## 【0006】

【課題を解決するための手段】 上記目的は、紙板材を折り曲げ組み立てた直方体形状の容器本体内に、液体、粉体等の内容物を収納するとともに、容器本体の一側面上下方向に縦長で、しかも透明なシートによって全域が裏打ちされた窓を透して内容物の残量を視認できるようにした残量確認用窓付紙バックにおいて、前記紙板材に

前記窓の外形状に適合する断続構造の切れ目を設け、この切れ目で囲まれた紙板材部に切除可能な窓形成用の除去カバー部を形成し、この除去カバー部の表面全域又は除去カバー部の端部に、剥離用シートを固着したことにより達成される。

【0007】上記目的は、前記剥離用シートに、紙板材に固着しない摘み部を設けたことにより達成される。

## 【0008】

【発明の実施の形態】 以下、図面を参照しつつ、この発明の実施の形態について説明する。

【0009】図1は、この発明による残量確認用窓付紙バックを示す。図中符号1は、この紙バックの容器本体である。容器本体1は、シート状の紙板材を折り曲げて直方体状に組み立て、内部に内容物として液状の農薬を収納するものである。なお、容器本体1内に収納する内容物は、この農薬等の液体に限らず、粉体などであってもよいのは勿論である。

【0010】さて、容器本体1を構成する紙板材は、図示省略するが、たとえば〔表側〕PE/紙/PE/シリカ蒸着PET/PE〔裏側〕からなる層構成で、剛性をもたせた構造になっている。また、たとえば〔表側〕PE/紙/PE/AL/PET/PE〔裏側〕の層構成とすることもできる。

【0011】そして、容器本体1の一側面1aには、上下方向に縦長な帯状の除去カバー部2を設ける。除去カバー部2は、その外周縁に沿って紙板材に断続構造の切れ目3を入れて、この切れ目3で囲まれた紙板材部を切除可能に形成している。その場合、例えば適宜抜刀を用いて紙板材を切断し、図2に示すように切れ目3を紙板材の厚さ方向に貫通するように形成する。

【0012】切れ目3は、図3(a)に示すように、その1つ1つをやや長い線状に形成するとよい。

【0013】なお、切れ目3は、図3(b)に示すように、上下両端側を除いて、その1つ1つを短い破線状に形成してもよい。また、たとえば図3(c)に示すように、1つ1つの切れ目3を、上端を内向きに曲げた略一形状に形成したものであってもよい。

【0014】一方、この紙バックは、図2に示すように、除去カバー部2の裏裏側を除く紙板材の裏面に、透明シート4をヒートシール4aする。透明シート4は、たとえば〔外側〕PE/Ny/シリカ蒸着PET〔内側〕からなる層構成で、バリア性を高めた構造にしている。そして、この透明シート4を除去カバー部2に重ねて設け、切れ目3を裏側からシールしている。また、透明シート4は、たとえば〔外側〕PE/OPP/シリカ蒸着PET〔内側〕の層構成とした部材で形成することもできる。

【0015】なお、上述した本発明による紙バックには、図1に示すように、除去カバー部2の側縁に農薬の残量を示す目盛5を設けている。

【0016】さらに、この紙バックは、除去カバー部2の切除がより簡単に行えるように、図4でも示すように、除去カバー部2の表面側に剥離用シート7を備えた構成にする。

【0017】剥離用シート7は、たとえば〔外側〕Ny/PE〔内側〕の層構成にした透明な縦長シートを用い、図5(a)・(b)・(c)にそれぞれ示すように、除去カバー部2の表面全域にヒートシール7bして固着する。その場合、剥離用シート7をより強く固着すべく、前記抜き刃を用いて切れ目3を入れる前に、除去カバー部2の帯状表面部を、予めニス抜きしておくとい。

【0018】剥離用シート7としては、たとえば〔外側〕OPP/PE〔内側〕、〔外側〕Ny/AL/PE〔内側〕、〔外側〕OPP/AL/PE〔内側〕、〔外側〕PET/AL/PE〔内側〕の層構成とした、それぞれ他のシート材を用いることもできる。

【0019】なお、そのような剥離用シート7には、上部側に摘み部7aを設ける。その摘み部7aは、指で摘みやすいように、前記紙板材に対しヒートシールなどして固着しないようにする。

【0020】さて、上述した構成の残量確認用窓付紙バックでは、その中に農薬を収納して保管したり、輸送したりする。そのような場合、透明シート4の表側は、除去カバー部2を重ねて防護しているため、不用意に突っ込んだものが当たっても透明シート4が破れて農薬がこぼれ出るのを防止できる。

【0021】そして、あとで、この紙バック内の農薬を使用する場合、その農薬の残量を確認する必要があるときは、剥離用シート7の摘み部7aを摘んで剥離用シート7を引っ張り、それと一体に除去カバー部2を切れ目3に沿って切除し、透明な帯状の窓を外部に露ませる。そして、目盛5を見て残量を確認する。

【0022】なお、図示した例において、剥離用シート7は、除去カバー部2と重なる中央部分でヒートシールし、その外側部分はヒートシールしていない。しかし、図示しないが、剥離用シート7の全面をヒートシールしてもよい。その場合、剥離用シート7の中央部分は強めに除去カバー部2に固着され、外側部分はバイグロスニスのために弱めに固着される。

【0023】また、上述した例では、除去カバー部2の表面全域に剥離用シート7を固着したが、図6(a)・(b)・(c)にそれぞれ示すように、除去カバー部2表面の上端部にだけ剥離用シート7を固着するようにしてもよい。

【0024】図6の例では、剥離用シート7として、たとえば前記したように〔外側〕Ny/PE〔内側〕の層構成にした透明な小片シートを用いてヒートシール7cする。そして、農薬残量を確認する必要があるときは、同様に摘み部7aを摘んで剥離用シート7を引っ張り、

それと一体に除去カバー部2全体を切れ目3に沿って切除する。

【0025】なお、除去カバー部2表面の下端部に剥離用シート7を固着して除去カバー部2を切除するようにしてもよい。上述した剥離用シート7は、必ずしも透明でなくてもよいのは勿論である。

【0026】ここで、前記の説明中で用いた記号について説明する。PEはポリエチレン、ALはアルミニウム箔、PETはポリエチレンテレフタレート、Nyはナイロン、OPPは延伸ポリプロピレンを表わす。

【0027】

【発明の効果】 上述した本発明によれば、次のような効果が得られる。

【0028】請求項1によれば、紙板材に断続構造の切れ目を設け、この切れ目で囲まれた紙板材部に切除可能な窓形成用の除去カバー部を形成し、透明シートの表側に除去カバー部を重ねて防護した構成であるため、輸送の際などに、不用意に突っ込んだものなどが当たっても透明シートが破れて内容物がこぼれ出るのを防止することができる。また、除去カバー部の表面全域又は除去カバー部の端部に剥離用シートを固着した構成とすることにより、内容物の残量を確認する必要があるとき、剥離用シートを引っ張るだけで、簡単に除去カバー部を切除することができる。そして、除去カバー部を切れ目3に沿って切除して透明な窓を外部に露ませれば、簡単に残量を視認することができる。

【0029】請求項2によれば、加えて、剥離用シートに、紙板材に固着しない摘み部を設けた構成とし、これにより、除去カバー部を切除するとき、この摘み部を摘んで剥離用シートを簡単に引っ張ることができる。

【図面の簡単な説明】

【図1】 本発明による残量確認用窓付紙バックの一例を示す斜視図である。

【図2】 その紙バックの窓部構造を示す部分横断面図である。

【図3】 除去カバー部の外周縁に設ける切れ目形状を示す構成説明図である。

【図4】 除去カバー部に剥離シートを固着した窓部構造を示す部分横断面図である。

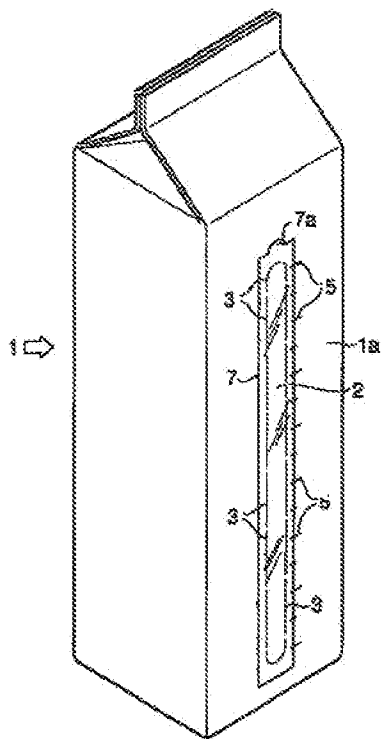
【図5】 除去カバー部の表面全域に剥離シートを固着した窓部構造の構成説明図である。

【図6】 除去カバー部表面の上端部に剥離シートを固着した窓部構造の構成説明図である。

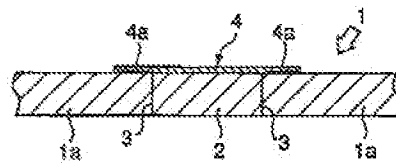
【符号の説明】

- 1 容器本体
- 2 除去カバー部
- 3 切れ目
- 4 透明シート
- 7 剥離用シート
- 7a 摘み部

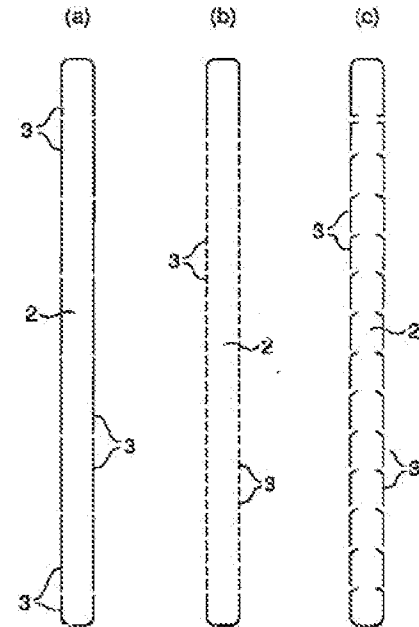
【図1】



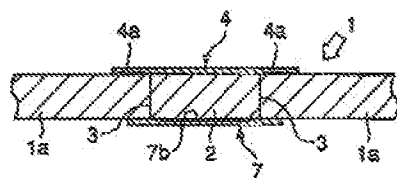
【図2】



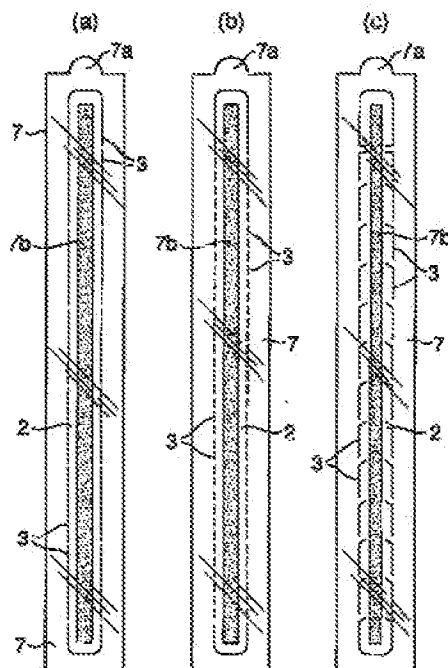
【図3】



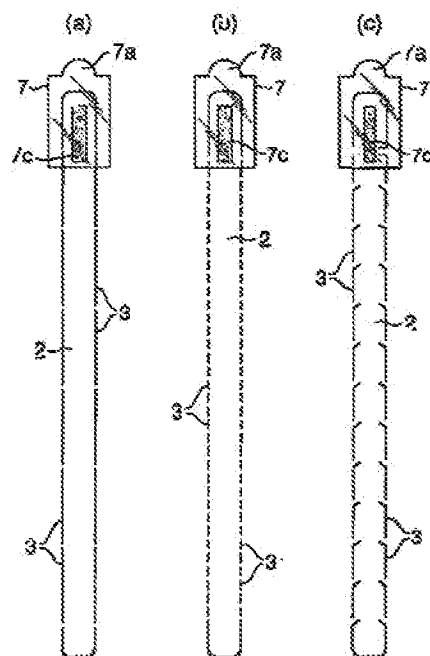
【図4】



【図5】



【図6】



フロントページの続き

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(71)Applicant : SANKYO CO LTD  
TOPPAN PRINTING CO LTD

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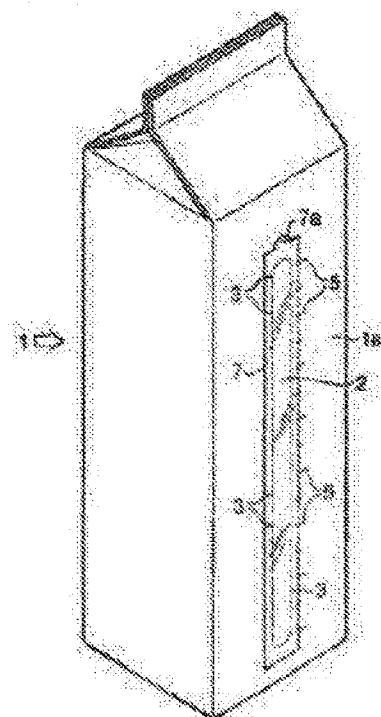
(72)Inventor : KATAYAMA MASAMICHI  
HAGIWARA KAZUYA

## (54) PAPER PACK WITH WINDOW FOR CHECKING AMOUNT OF RESIDUE

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To prevent, in a paper pack with a transparent window for visually checking the amount of residues of contents such as agricultural chemicals, the window from being broken so that the contents spill out during transportation.

**SOLUTION:** Incised lines 3 are formed on a paperboard which forms a container body 1, and a removable cover part 2, in a longitudinally long shape, for forming a window is formed on the paperboard encircled by the lines 3. The cover part 2 is placed on a transparent sheet on the rear side of the part 2 to protect the transparent sheet, and in order to easily cut off the cover part 2, a peeling sheet 7 is heat sealed onto the entire area of the part 2 or onto an end of the part 2.





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**CLAIMS**

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[Claim(s)]

[Claim 1]While storing contents, such as a liquid and a granular material, in a package body of rectangular parallelepiped shape which bent and assembled paper board material, In a windowed paper pack for a residue check which spaces a window with which it was longwise to a one side face sliding direction of a package body, and the whole region was moreover backed with a transparent sheet, and enabled it to recognize a residue of contents visually, A windowed paper pack for a residue check having provided a break of intermittence structure which suits outline shape of said window in said paper board material, having formed a resectable removal cover part for fenestration in a paper board material part surrounded by this break, and adhering a sheet for exfoliation to the surface whole region of this removal cover part, or an end of a removal cover part.

[Claim 2]The windowed paper pack for a residue check according to claim 1 providing a knob part which does not adhere to paper board material in said sheet for exfoliation.

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[Translation done.]

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## DETAILED DESCRIPTION

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### [Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention bends paper board material, assembles it to rectangular parallelepiped shape, and belongs to the technical field concerning the windowed paper pack for a residue check which stores contents, such as a liquid and a granular material, inside.

[0002]

[Description of the Prior Art]Although some which stored liquefied agricultural chemicals inside, for example are in a paper pack conventionally, when all not exhausting agricultural chemicals at once, it may be kept as it is and may prepare for next use.

[0003]Therefore, in keeping contents with a paper pack such, when using it again behind, it is convenient if you can check the residue of contents. Therefore, a long and slender window hole is established in a height direction, the window hole is backed with a bright film, a transparent window is formed, and there are some conventional paper packs which enabled it to recognize the residue of contents visually from the window (for example, refer to application-for-utility-model-registration common [ No. 93298 / three to ]).

[0004]

[Problem to be solved by the invention]In the above conventional windowed paper packs for a residue check, SUBJECT that the bright film is torn, and contents will fall and it will come out from a window, for example during transportation if what sharpened carelessly hits a bright film occurred.

[0005]Then, in the windowed paper pack for a residue check which enabled it to recognize the residue of contents visually from a window transparent as mentioned above, the purpose of this invention is to prevent a window being torn during transportation, and contents falling and coming out.

[0006]

[Means for solving problem]While the above-mentioned purpose stores contents, such as a liquid and a granular material, in the package body of the rectangular parallelepiped shape which bent and assembled paper board material, In the windowed paper pack for a residue check which spaces the window with which it was longwise to the one side face sliding direction of the package body, and the whole region was moreover backed with the transparent sheet, and enabled it to recognize the residue of contents visually, The break of the intermittence structure which suits the outline shape of said window is provided in said paper board material, the resectable removal cover part for fenestration is formed in the paper board material part surrounded by this break, and it is attained by having adhered the sheet for exfoliation to the surface whole region of this removal cover part, or the end of a removal cover part.

[0007]The above-mentioned purpose is attained by having provided the knob part which does not adhere to said sheet for exfoliation at paper board material.

[0008]

[Mode for carrying out the invention]Hereafter, this embodiment of the invention is described, referring to Drawings.

[0009]Drawing 1 shows the windowed paper pack for a residue check by this invention. The mark 1 in a figure is a package body of this paper pack. The package body 1 bends sheet shaped paper board material, assembles it to rectangular parallelepiped shape, and stores agricultural chemicals liquefied as contents inside. As for the contents stored in the package body 1, it is needless to say that it may be not only liquids, such as those agricultural chemicals, but a granular material etc.

[0010]now — although it carries out figures omitted abbreviated [ of the paper board material which constitutes the package body 1 ] — for example [A side front] PE / paper / PE / silica vacuum evaporation PET/PE [The back side] By lamination, \*\* and others, it has structure which gave rigidity. For example[A side front] PE / paper / PE/AL/PET/PE It can also be considered as lamination on the [back side].

[0011]And the band-like removal cover part 2 longwise to a sliding direction is formed in the one side face 1a of the package body 1. The removal cover part 2 puts the break 3 of intermittence structure into paper board material along that periphery edge, and forms a paper board material part surrounded by this break 3 resectable. In that case, paper board material is suitably cut using a punching blade, for example, and it forms so that the break 3 may be penetrated to a thickness direction of paper board material, as shown in drawing 2.

[0012]The break 3 is good to form the each in a little long line, as shown in drawing 3 (a).

[0013]The break 3 may form the each in the shape of [ short ] a dashed line except for the top-and-bottom-ends side, as shown in drawing 3 (b). As shown, for example in drawing 3 (c), each break 3 may be formed in the abbreviation \*\* form where the upper bed was bent for inner.

[0014]heat-sealing 4a On the other hand, this paper pack makes the transparent sheet 4 the rear face of the paper board material except the back side of the removal cover part 2, as shown in drawing 2, the transparent sheet 4 — for example [Outside] PE/Ny / silica vacuum evaporation PET [Inside] By the lamination, \*\* and others, it is made the structure which improved barrier property. And this transparent sheet 4 is formed in the removal cover part 2 in piles, and the seal of the break 3 is carried out from the back side. the transparent sheet 4 — for example [Outside] PE/OPP / silica vacuum evaporation PET It can also form by the component made into [inside] lamination.

[0015]As shown in drawing 1, the graduation 5 which shows the residue of agricultural chemicals to the side edge of the removal cover part 2 is provided in the paper pack by this invention mentioned above.

[0016]As drawing 4 also shows, this paper pack is made the composition which equipped the surface side of the removal cover part 2 with the sheet 7 for exfoliation so that excision of the removal cover part 2 can carry out more easily.

[0017]the sheet 7 for exfoliation — for example [Outside] Ny/PEUsing the transparent longwise sheet made into [inside] lamination, as shown in drawing 5 (a) –(b) – (c), respectively, it heat-sealing 7b Carries out throughout the surface of the removal cover part 2, and adheres. In that case, before putting in the break 3 using said punching blade, it is [ that the sheet 7 for exfoliation should be adhered more strongly ] good to carry out varnish omission of the band-like surface part of the removal cover part 2 beforehand.

[0018]as the sheet 7 for exfoliation — for example [Outside] OPP/PE[Inside] \*\*[Outside] Ny/AL/PE [Inside] \*\*[Outside] OPP/AL/PE[Inside] \*\*[Outside] PET/AL/PETThe web material of others respectively made into [inside] lamination can also be used.

[0019]The knob part 7a is formed in such a sheet 7 for exfoliation at the upper part side. The knob part 7a is kept from adhering by heat sealing to said paper board material so that it may be easy to gather with a finger.

[0020]Now, in the windowed paper pack for a residue check of composition of having mentioned above, into it, agricultural chemicals are stored, and are kept or conveyed. In such a case, since the side front of the transparent sheet 4 protects the removal cover part 2 in piles, even if what sharpened carelessly hits, it can prevent the transparent sheet 4 being torn, and agricultural chemicals falling and coming out.

[0021]And when using the agricultural chemicals in this paper pack and it is necessary to check the residue of those agricultural chemicals, the knob part 7a of the sheet 7 for exfoliation is gathered, the sheet 7 for exfoliation is pulled, the removal cover part 2 is excised along with the break 3 to it and one, and a transparent band-like window is made to face outside later. And the graduation 5 is seen and a residue is checked.

[0022]In the illustrated example, the sheet 7 for exfoliation is heat sealed by the center portion which laps with the removal cover part 2, and has not heat sealed the lateral part. However, although not illustrated, the whole surface of the sheet 7 for exfoliation may be heat sealed. In that case, the center portion of the sheet 7 for exfoliation adheres strength at the removal cover part 2, and a lateral part adheres weakness for by gross varnish.

[0023]Although the sheet 7 for exfoliation was adhered throughout the surface of the removal cover

cover part 2 surface in the example mentioned above, as shown in drawing 6 (a) –(b) – (c), respectively.

[0024]In the example of drawing 6, it described above as the sheet 7 for exfoliation, for example,

[Outside] Ny/PEheat-sealing 7c Carry out using the transparent wafer sheet made into [inside] lamination. And when it is necessary to check an agricultural-chemicals residue, the knob part 7a is gathered similarly, the sheet 7 for exfoliation is pulled, and the removal cover part 2 whole is excised along with the break 3 to it and one.

[0025]The sheet 7 for exfoliation is adhered to the lower end part of the removal cover part 2 surface, and it may be made to excise the removal cover part 2. As for the sheet 7 for exfoliation mentioned above, it is needless to say that may not necessarily be transparent.

[0026]Here, a sign which is during the aforementioned explanation and was used is explained. In PE, as for polyethylene and aluminum, aluminium foil and PET express polyethylene terephthalate, Ny expresses nylon, and OPP expresses extension polypropylene.

[0027]

[Effect of the Invention]According to this invention mentioned above, the following effects are acquired.

[0028]Since it is the composition which provided the break of intermittence structure in paper board material, formed the resectable removal cover part for fenestration in the paper board material part surrounded by this break, and protected the removal cover part in piles on the side front of the transparent sheet according to Claim 1, It can prevent a transparent sheet being torn, and contents falling and coming out in the case of transportation, etc., even if what sharpened carelessly hits. When it is necessary to check the residue of contents by making the sheet for exfoliation the surface whole region of a removal cover part, or the end of a removal cover part with the composition which adhered, a removal cover part can be easily excised only by pulling the sheet for exfoliation. And if a removal cover part is excised along with a break and a transparent window is made to face outside, a residue can be recognized visually easily.

[0029]When according to Claim 2 it has composition which provided the knob part which does not adhere to paper board material and this excises [ in addition ] a removal cover part on the sheet for exfoliation, this knob part can be gathered and the sheet for exfoliation can be pulled easily.

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[Translation done.]

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1.This document has been translated by computer. So the translation may not reflect the original precisely.

2.\*\*\* shows the word which can not be translated.

3.In the drawings, any words are not translated.

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**TECHNICAL FIELD**

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[Field of the Invention]This invention bends paper board material, assembles it to rectangular parallelepiped shape, and belongs to the technical field concerning the windowed paper pack for a residue check which stores contents, such as a liquid and a granular material, inside.

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[Translation done.]

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## DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1]It is a perspective view showing an example of the windowed paper pack for a residue check by this invention.

[Drawing 2]It is a partial cross-sectional view showing the window part structure of the paper pack.

[Drawing 3]It is a composition explanatory view showing the break form provided in the periphery edge of a removal cover part.

[Drawing 4]It is a partial cross-sectional view showing the window part structure which adhered the exfoliation sheet to the removal cover part.

[Drawing 5]It is a composition explanatory view of the window part structure which adhered the exfoliation sheet throughout the surface of a removal cover part.

[Drawing 6]It is a composition explanatory view of the window part structure which adhered the exfoliation sheet to the upper bed part of the removal cover part surface.

[Explanations of letters or numerals]

1 Package body

2 Removal cover part

3 Break

4 Transparent sheet

7 The sheet for exfoliation

7a Knob part

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[Translation done.]

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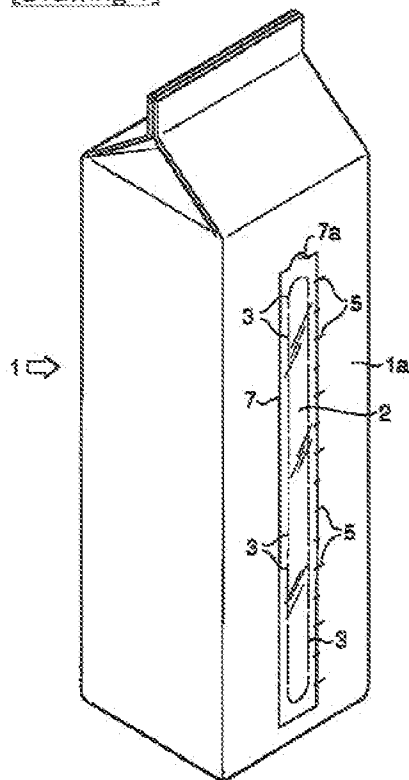
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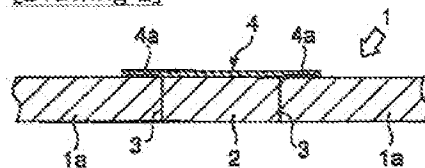
**DRAWINGS**

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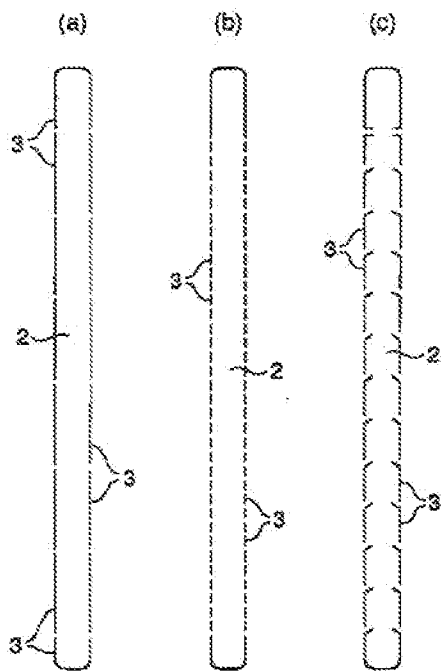
[Drawing 1]



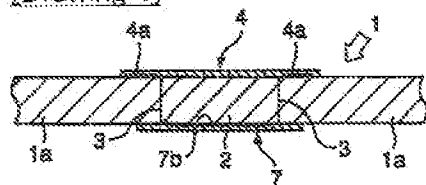
[Drawing 2]



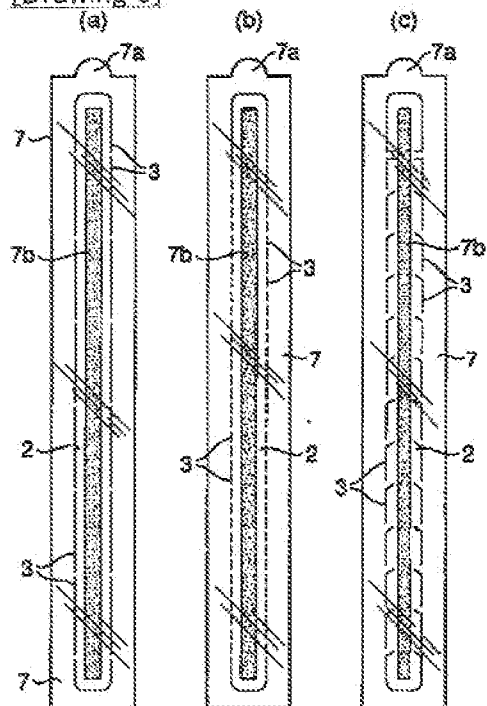
[Drawing 3]



[Drawing 4]

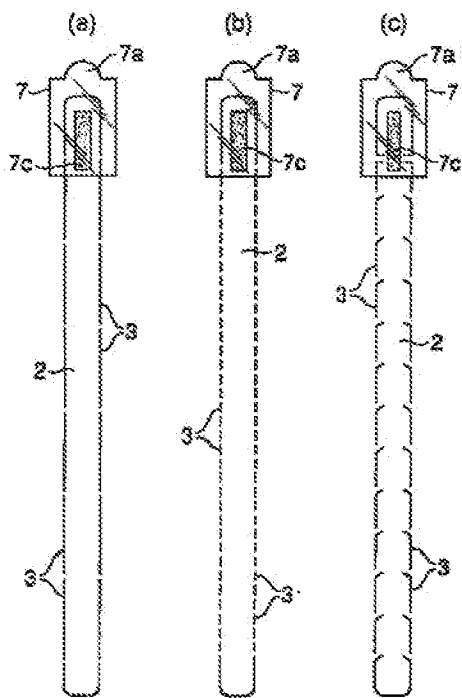


[Drawing 5]



[Drawing 6]





[Translation done.]